



 Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	10/767,249
				Filing Date	January 28, 2004
				First Named Inventor	Stuelpnagel, John
				Art Unit	1639
				Examiner Name	Wang, Andrew J.
Sheet	1	of	1	Attorney Docket Number	01-00009

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number/Kind Code ⁴	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MEB	1	4,895,706	01/23/1990	Root et al.	
	2	5,073,029	12/17/1991	Eberly et al.	
↓	3	5,100,775	03/31/1992	Smyczek et al.	
	4	5,278,048	01/11/1994	Parce et al.	

FOREIGN PATENT DOCUMENTS

Examiner Signature	/Molly Baughman/	Date Considered	06/30/2006
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/767,249
				Filing Date	01/28/2004
				First Named Inventor	John Stuelpnagel
				Art Unit	1645
				Examiner Name	To be assigned
Sheet	1	of	1	Attorney Docket Number	01-00009

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Examiner Initials*	Cite No.*	Document Number/Kind Code ²	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

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MEB	1	WO 89/10977	11/16/89	Isis Innovation Limited		
	2	WO 90/00626	01/25/90	Baylor College of Medicine		
	3	WO 90/03382	04/05/90	Isis Innovation Limited		
	4	WO 90/15070	12/13/90	Affymax Technologies N.V.		
	5	WO 90/10092	06/25/92	Affymax Technologies N.V.		
	6	WO 92/10587	06/25/92	Affymax Technologies N.V.		
	7	WO 92/10588	06/25/92	Affymax Technologies N.V.		
	8	WO 93/09668	05/27/93	Affymax Technologies N.V.		
	9	WO 93/11262	06/10/93	Bertin & Cie		
	10	WO 93/22053	11/11/93	Trustees of University of Pennsylvania		
	11	WO 93/22058	11/11/93	Trustees of University of Pennsylvania		
	12	WO 02/00336	01/03/02	Illumina, Inc.		
	13	EP 0 260 965	03/23/88	Pacific Biotech Inc.		
	14	EP 0 378 968	07/25/90	Isis Innovation Limited & Ciba-Geigy AG		
▼	15	EP 0 417 305	03/20/91	Idemitsu Petrochemical Co. Ltd.		

Examiner Signature	/Molly Baughman/	Date Considered	07/05/2006
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IDS - 09/09/2014

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	COMPOSITE ARRAYS UTILIZING MICROSPHERES WITH A HYBRIDIZATION CHAMBER						
Application Number :	10/767249						
Confirmation Number:	4783						
First Named Applicant:	John Stuelpnagel						
Attorney Docket Number:	01-00009						
Art Unit:	1645						
Examiner:							
Search string:	(3281860 or 3690836 or 3710933 or 3802966 or 4016855 or 4121222 or 4204929 or 4373071 or 4458066 or 4500707 or 4728502 or 4731325 or 4780504 or 4812512 or 4815274 or 4853335 or 4877745 or 4878971 or 4963498 or 4992383 or 5021550 or 5047524 or 5141813 or 5153319 or 5188963 or 5200051 or 5204253 or 5256549 or 5281516 or 5281540 or 5287272 or 5288514 or 5300779 or 5304487 or 5310469 or 5314829 or 5320808 or 5322799 or 5346672 or 5358691 or 5374395 or 5382511 or 5384261 or 5436129 or 5451500 or 6355431 or 6396995 or 6429027 or 6544732 or 6551817).pn						
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
MEB	1	3281860	1966-10-25	Adams			
	2	3690836	1972-09-12	Buissiere			
	3	3710933	1973-01-16	Fulwyler			
	4	3802966	1974-04-09	Delekto			
	5	4016855	1977-04-12	Mimata			
	6	4121222	1978-10-17	Diebold			
	7	4204929	1980-05-27	Bier			
	8	4373071	1983-02-08	Ikatura			
	9	4458066	1984-07-03	Caruthers			
	10	4500707	1985-02-19	Caruthers			
	11	4728502	1988-03-01	Hamill			
	12	4731325	1988-03-15	Palva			
	13	4780504	1988-10-25	Buenadia			
	14	4812512	1989-03-14	Buenadia			
	15	4815274	1989-03-28	Piatti			
	16	4853335	1989-08-01	Olsen			
▼	17	4877745	1989-10-31	Hayes			
	18	4878971	1989-11-07	Tsunekawa			

MEB	19	4963498	1990-10-16	Hillman			
	20	4992383	1991-02-12	Farnsworth			
	21	5021550	1991-06-04	Zeiger			
	22	5047524	1991-09-10	Andrus			
	23	5141813	1992-08-25	Nelson			
	24	5153319	1992-10-06	Caruthers			
	25	5188963	1993-02-23	Stapleton			
	26	5200051	1993-04-06	Cozzette			
	27	5204253	1993-04-20	Sanford			
	28	5256549	1993-10-26	Urdea			
	29	5281516	1994-01-25	Stapleton			
	30	5281540	1994-01-25	Merkh			
	31	5287272	1994-02-15	Rutenberg			
	32	5288514	1994-02-22	Ellman			
	33	5300779	1994-04-05	Hillman			
	34	5304487	1994-04-19	Wilding			
	35	5310469	1994-05-10	Cunningham			
	36	5314829	1994-05-24	Coles			
	37	5320808	1994-06-14	Holen			
	38	5322799	1994-06-21	Miller			
	39	5346672	1994-09-13	Stapleton			
	40	5358691	1994-10-25	Clark			
	41	5374395	1994-12-20	Robinson			
	42	5382511	1995-01-17	Stapleton			
	43	5384261	1995-01-24	Winkler			
	44	5436129	1995-07-25	Stapleton			
	45	5451500	1995-09-19	Stapleton			
	46	6355431	2002-03-12	Chee			
	47	6396995	2002-05-28	Stuelpnagel			
	48	6429027	2002-08-06	Chee			
▼	49	6544732	2003-04-08	Chee			
	50	6551817	2003-04-22	Besemer			

Signature

Examiner Name	Date
/Molly Baughman/	07/05/2006

IDS - 09/09/2014

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Title of Invention	COMPOSITE ARRAYS UTILIZING MICROSPHERES WITH A HYBRIDIZATION CHAMBER
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Application Number : 10/767249



Confirmation Number: 4783

First Named Applicant: John Stuelpnagel

Attorney Docket Number: 01-00009

Art Unit: 1645

Examiner:

Search string: (6620584 or 6663832 or 20020132221 or 20020132241 or 20020150909 or 20020177141 or 20030032204 or 20030096239 or 20030108867 or 20030108900).pn

US Patent Documents**Note: Applicant is not required to submit a paper copy of cited US Patent Documents**

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
MEB	1	6620584	2003-09-16	Chee			
MEB	2	6663832	2003-09-16	Lebl			

US Published Applications**Note: Applicant is not required to submit a paper copy of cited US Published Applications**

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
MEB	1	20020132221	2002-09-19	Chee			
	2	20020132241	2002-09-19	Fan			
	3	20020150909	2002-10-17	Stuelpnagel			
	4	20020177141	2002-11-28	Chee			
	5	20030032204	2003-02-13	Walt			
	6	20030096239	2003-05-22	Gunderson			
↓	7	20030108867	2003-06-12	Chee			
↓	8	20030108900	2003-06-12	Olyphant			

Signature

Examiner Name	Date
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/Molly Baughman/

07/05/2006



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				Filing Date	01/28/2004
				First Named Inventor	Stuelpnagel et al.
				Art Unit	To be assigned
				Examiner Name	To be assigned
Sheet	1	of	11	Attorney Docket Number	01-00009

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number/Kind Code ²	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MEB	1	4,200,110	4/29/1980	Peterson	
	2	4,499,052	2/12/1985	Fulwyler	
	3	4,672,040	6/9/1987	Josephson	
	4	4,682,895	7/28/1987	Costello	
	5	4,785,814	11/22/1988	Kane	
↓	6	4,822,746	4/18/1989	Walt	
	7	4,824,789	4/25/1989	Yafuso	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ⁴ -Number ⁵ -Kind Code ⁶	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MEB	8	EP 0 269 764	06/08/1988	Molecular Biosystems, Inc.	
	9	WO-89/11101	11/16/1989	Dynal A.S.	
	10	EP 0 392 546	10/17/1990	Ro Institut Za Molekularnu Genetiku I Geneticko Inzenjerstvo	
	11	EP 0 478 319	04/01/1992	Kabushiki Kaisha Toshiba	
	12	WO-93/02360	02/07/1993	Trans-Med Biotech, Inc.	
	13	WO-93/06121	04/01/1993	Affymax Technologies	
	14	WO-96/03212	02/08/1996	Sydney Brenner	
	15	EP 0 723 146	07/24/1996	SRI International	
	16	WO-97/14028	04/17/1997	Luminex Corp.	
	17	WO-97/14928	04/24/1997	Norman Brint	
↓	18	WO-97/33737	09/18/1997	Pres. and Fellows of Harvard College	
	19	WO-97/40385	10/30/1997	Michael Seul	

Examiner Signature	/Molly Baughman/	Date Considered	07/05/2006
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				First Named Inventor	
				Stuelpnagel et al.	
				Art Unit	
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MEB	20	4,999,306	3/12/1991	Yafuso	
	21	5,002,867	3/26/1991	Macevicz	
	22	5,028,545	7/2/1991	Soini	
	23	5,105,305	4/14/1992	Betzig	
	24	5,114,864	5/19/1992	Walt	
	25	5,132,242	7/21/1992	Cheung	
↓	26	5,143,853	9/1/1992	Walt	

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MEB	27	WO-98/08092	02/26/1998	SmithKline Beecham Corporation	
	28	WO-98/29736	07/09/1998	Genometrix Inc.	
	29	WO-98/40726	09/17/1998	Trustees of Tufts College	
	30	WO-98/50782	11/12/1998	Trustees of Tufts College	
	31	WO-98/53300	11/16/1998	Lynx Therapeutics	
	32	WO-98/53093	11/26/1998	Bioarray Solutions LLC and Rutgers, the State University of New Jersey	
	33	WO-99/05320	02/04/1999	Rapigene, Inc.	
	34	WO-99/18434	04/15/1999	Trustees of Tufts College	
	35	WO-99/60170	11/25/1999	Hyseq, Inc.	
	36	WO-99/67414	12/29/1999	Glaxo Wellcome Inc.	
	37	WO-00/04372	01/27/2000	The Board of Regents, the University of Texas System	
↓	38	WO-00/13004	03/09/2000	Trustees of Tufts College	

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MEB	39	5,143,854	9/1/1992	Pirrung	
	40	5,194,300	3/16/1993	Cheung	
	41	5,244,636	9/14/1993	Walt	
	42	5,244,813	9/14/1993	Walt	
	43	5,250,264	10/5/1993	Walt	
↓	44	5,252,494	10/12/1993	Walt	
	45	5,254,477	10/19/1993	Walt	

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	49	5,302,509	4/12/1994	Cheeseman	
	50	5,320,814	6/14/1994	Walt	
	51	5,357,590	10/18/1994	Auracher	
	52	5,380,489	1/10/1995	Sutton	
↓	53	5,435,724	7/25/1995	Goodman	
↓	54	5,445,970	8/29/1995	Rohr	

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MEB	55	5,481,629	1/2/1996	Tabuchi	
	56	5,494,798	2/27/1996	Gerd	
	57	5,496,997	3/5/1996	Pope	
	58	5,512,490	4/30/1996	Walt	
	59	5,516,635	5/14/1996	Ekins	
↓	60	5,518,883	5/21/1996	Soini	
↓	61	5,545,531	8/13/1996	Rava	

FOREIGN PATENT DOCUMENTS

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known			
				Application Number		10/767,249	
				Filing Date		01/28/2004	
				First Named Inventor		Stuelpnagel et al.	
				Art Unit		To be assigned	
				Examiner Name		To be assigned	
Sheet	6	of	11	Attorney Docket Number			

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number/Kind Code ²	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MEB	62	5,565,324	10/15/1996	Still	
	63	5,573,909	11/12/1996	Singer	
	64	5,575,849	11/19/1996	Honda	
	65	5,595,915	1/21/1997	Geysen	
	66	5,633,972	5/27/1997	Walt	
↓	67	5,639,603	6/17/1997	Dower	
↓	68	5,656,241	8/12/1997	Seifert	

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Substitute for form 1449/PTO				Complete if Known	
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Sheet	7	of	11	Attorney Docket Number	01-00009

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Examiner Initials*	Cite No. ¹	Document Number/Kind Code ²	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MEB	69	5,690,894	11/25/1997	Pinkel	
	70	5,814,524	9/29/1998	Walt	
	71	5,837,196	11/17/1998	Pinkel	
	72	5,840,256	11/24/1998	Demers	
	73	5,854,684	12/29/1998	Stabile	
↓	74	5,863,708	1/26/1999	Zanzucchi	
↓	75	5,863,722	1/26/1999	Brenner	

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MEB	76	5,874,219	2/23/1999	Rava	
	77	5,888,723	3/30/1999	Sutton	
↓	78	5,900,481	5/4/1999	Lough	
	79	6,023,540	2/8/2000	Walt	

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MEB	80	ABEL et al., "Fiber-Optic Evanescent Wave Biosensor for the Detection of Oligonucleotides," Analytical Chemistry, 68:2905 - 2912 (1996).			
	81	ANONYMOUS, "Fluorescent Microspheres," Tech. Note 19, Bangs Laboratories, (Fishers, IN) (1997).			
	82	ANONYMOUS, "Microsphere Selection Guide," Bangs Laboratories, (Fisher, IN) (1998).			
	83	BANGS, L. B., "Immunological Applications of Microspheres," The Latex Course, Bangs Laboratories (Carmel, IN) (1996).			
	84	BARNARD et al., "A Fibre-Optic Chemical Sensor with Discrete Sensing Sites," Nature, 353:338 - 340 (1991).			
	85	CZARNIK, A., "Illuminating the SNP Genomic Code," Modern Drug Discovery, 1:49 - 55 (1998).			
	86	DRMANAC, R. et al., "Prospects for a Miniaturized, Simplified and Frugal Human Genome Project," Scientia Yugoslavica, 16:97 - 107 (1990).			
	87	DRMANAC, R. et al., "Sequencing by Hybridization," Automated DNA Sequencing and Analysis, ed. M. Adams, C. Fields and J. Venter (1994).			
	88	DRMANAC, R. et al., "Sequencing by Hybridization (SBH) with Oligonucleotide Probes as an Integral Approach for the Analysis of Complex Genomes," International Journal of Genome Research, 1:59 - 79 (1992).			
	89	DRMANAC, R. et al., "Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Program," The First International Conference of Electrophoresis, Supercomputing and the Human Genome, Proceedings of the April 10-13, 1990 Conference at Florida Statue University. Ed. C. Cantor and H. Lim (1990).			
▼	90	FERGUSON et al., "A Fiber-Optic DNA Biosensor Microarray for the Analysis of Gene Expression," Nature Biotechnology, 14:1681 - 1684 (1996).			

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MEB	91	FUH et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112:1159 - 1163 (1987).			
	92	HEALEY et al., "Development of a Penicillin Biosensor Using a Single Optical Imaging Fiber," SPIE Proc., 2388:568 - 573 (1995).			
	93	HEALEY et al., "Fiberoptic DNA Sensor Array Capable of Detecting Point Mutations," Analytical Biochemistry, 251:270 - 279 (1997).			
	94	HEALEY et al., "Improved Fiber-Optic Chemical Sensor for Penicillin," Analytical Chemistry, 67:4471 - 4476 (1995).			
	95	HIRSCHFELD et al., "Laser-Fiber-Optic 'Optrode' for Real Time In Vivo Blood Carbon Dioxide Level Monitoring," Journal of Lightwave Technology, LT-5:1027 - 1033 (1987).			
	96	ILLUMINA INC., "Emerging," Windhoover's In Vivo, The Business and Medicine Report, 1 - 2 (1998).			
	97	ILLUMINA INC., Slides presented by Illumina at Cambridge Healthtech Institute's Implications of Human Genetic Variation - SNP's, Polymorphisms, Diseases & Treatment. November 18-19, 1998, Waltham, Massachusetts.			
	98	MICHAEL et al., "Fabrication of Micro- and Nanostructures Using Optical Imaging Fibers and their use as Chemical Sensors," Proc. 3rd Intl. Symp., Microstructures and Microfabricated Systems, ed. P.J. Hesketh, et al., v.97-5, Electrochem. Soc., 152 -157 (1997).			
	99	MICHAEL et al., "Making Sensors out of Disarray: Optical Sensor Microarrays," Proc. SPIE, 3270:34 - 41 (1998).			
	100	MICHAEL et al., "Randomly Ordered Addressable High-Density Optical Sensor Arrays," Analytical Chemistry, 70:1242 -1248 (1998).			
▼	101	MIGNANI et al., "In-Vivo Biomedical Monitoring by Fiber-Optic Systems," Journal of Lightwave Technology, 13:1396 - 1406 (1995).			

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MEB	102	PANTANO et al., "Ordered Nanowell Arrays," Chem. Mater., 8:2832 - 2835 (1996).			
	103	PETERSON, et al., "Fiber-Optic Sensors for Biomedical Applications," Science, 13:123 - 127 (1984).			
	104	PETERSON, J. et al., "Fiber Optic pH Probe for Physiological Use," Analytical Chemistry, 52:864 - 869 (1980).			
	105	PIUNNO et al., "Fiber-Optic DNA Sensor for Fluorometric Nucleic Acid Determination," Analytical Chemistry, 67:2635 -2643 (1995).			
	106	POPE, E., "Fiber Optic Chemical Microsensors Employing Optically Active Silica Microspheres," SPIE Proc., 2388:245 - 256 (1995).			
	107	STRACHAN et al., "A Rapid General Method for the Identification of PCR Products Using a Fibre-Optic Biosensor and its Application to the Detection of Listeria," Letters in Applied Microbiology, 21:5 - 9 (1995).			
	108	VENTON et al., "Screening Combinatorial Libraries," Chemometrics and Intelligent Laboratory Systems, NL, Elsevier Science Publishers, Amsterdam, 48:131 - 150 (1999).			
	109	WALT, D., "Fiber Optic Imaging Sensors," Acc. Chem. Res., 31:267 -278 (1998).			
↓	110	WALT, D., "Fiber-Optic Sensors for Continuous Clinical Monitoring," Proc. IEEE, 80:903 - 911 (1992).			

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